

Pipeline Incident Cost Data

South Dakota Underground Pipeline Task Force

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Introduction

- The purpose of this presentation is to review available incident costs for hazardous materials (includes natural gas) pipelines in the United States.
- To do this the PHMSA incident database was used to review pipeline incident cost data for South Dakota and surrounding states and the U.S. as a whole.

PHMSA Accident Database

- Pipeline incidents included in the database are those meeting the following criteria:
 - Those with gross loss greater than 50 barrels or,
 - Those with a fatality or injury requiring in-patient hospitalization or,
 - Those with fire or explosions or,
 - Those with Highly volatile liquid releases with gross loss of more than 5 barrels or,
 - Those involving costs greater than or equal to \$50,000
- Cost include all public and private cost associated with the incident (includes cleanup and response costs)

South Dakota and Surrounding States

- Data reviewed for these states includes all pipeline incidents between January 1, 1998 and 2008 YTD
- States reviewed include: South Dakota, North Dakota, Minnesota, Iowa, Nebraska, Montana and Wyoming

South Dakota

- Number of Incidents = 9
- Maximum Incident Cost = \$476,430
- Minimum Incident Cost = \$36,363
- Average Cost Per Incident = \$200,657
- Median Cost Per Incident = \$150,000

North Dakota

- Number of Incidents = 17
- Maximum Incident Cost = \$1,341,652
- Minimum Incident Cost = \$0
- Average Cost Per Incident = \$372,772
- Median Cost Per Incident = \$276,125

Minnesota

> Number of Incidents =	64
> Maximum Incident Cost =	\$6,302,405
> Minimum Incident Cost =	\$0
> Average Cost Per Incident =	\$592,620
> Median Cost Per Incident =	\$170,996

Iowa

> Number of Incidents =	44
> Maximum Incident Cost =	\$2,291,773
> Minimum Incident Cost =	\$0
> Average Cost Per Incident =	\$249,941
> Median Cost Per Incident =	\$104,757

Nebraska

> Number of Incidents =	23
> Maximum Incident Cost =	\$765,470
> Minimum Incident Cost =	\$2,494
> Average Cost Per Incident =	\$227,893
> Median Cost Per Incident =	\$146,416

Montana

> Number of Incidents =	15
> Maximum Incident Cost =	\$879,525
> Minimum Incident Cost =	\$0
> Average Cost Per Incident =	\$238,079
> Median Cost Per Incident =	\$131,223

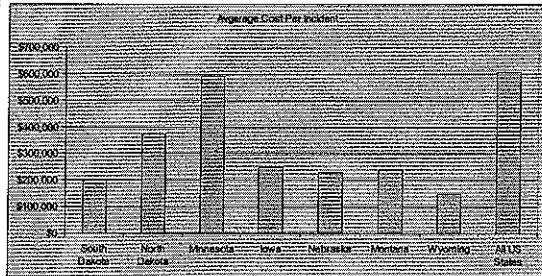
Wyoming

> Number of Incidents =	41
> Maximum Incident Cost =	\$1,282,203
> Minimum Incident Cost =	\$0
> Average Cost Per Incident =	\$147,503
> Median Cost Per Incident =	\$97,769

U.S. Pipeline Incidents

> Data reviewed for the U.S. includes all pipeline accidents between January 1, 1988 and 2008 YTD	
• Number of Incidents =	5,921
• Average Cost per Incident =	\$607,649

Average Cost Per Accident Summary Chart



Questions?